



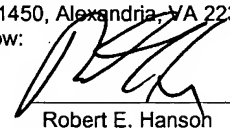
FULBRIGHT & JAWORSKI L.L.P.

A REGISTERED LIMITED LIABILITY PARTNERSHIP
600 CONGRESS AVENUE, SUITE 2400
AUSTIN, TEXAS 78701-3271
WWW.FULBRIGHT.COM

RHANSON@FULBRIGHT.COM
DIRECT DIAL: (512) 536-3085

TELEPHONE: (512) 474-5201
FACSIMILE: (512) 536-4598

November 12, 2003

CERTIFICATE OF MAILING 37 C.F.R. 1.8	
I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MS DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:	
November 12, 2003	
Date	Robert E. Hanson

MS DD

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

RE: *U.S. Patent Application No. 10/659,755 entitled "METHODS AND COMPOSITIONS FOR PRODUCTION OF FLAVONOID AND ISOFLAVONOID NUTRACEUTICALS" – Richard A. Dixon et al.*
Our reference: NBLE:007US

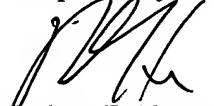
Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement, Form PTO-1449, and references B1 and C1-C22.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/NBLE:007US.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,


Robert E. Hanson
Reg. No. 42,628

REH/kmv
Encl.: as noted

25353738.1



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Richard A. Dixon *et al.*

Serial No.: 10/659,755

Filed: September 10, 2003

For: METHODS AND COMPOSITIONS FOR
PRODUCTION OF FLAVONOID AND
ISOFLAVONOID NUTRACEUTICALS

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: NBLE:007US

CERTIFICATE OF MAILING
37 C.F.R. 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MS DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:

November 12, 2003

Date


Robert E. Hanson

INFORMATION DISCLOSURE STATEMENT

MS DD

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be

an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/NBLE:007US.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,



Robert E. Hanson
Reg. No. 42,628
Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P.
600 Congress Avenue, Suite 2400
Austin, Texas 78701
(512) 474-5201

Date: November 12, 2003

Form PTO-1449 (modified)

Atty. Docket No.

NBLE:007US

Serial No.

10/659,755

List of Patents and Publications for Applicant's

Applicant

Richard A. Dixon *et al.*

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

September 10, 2003

Group:

Unknown

U.S. Patent Documents

See Page 1

Foreign Patent Documents

See Page 1

Other Art

See Page 1

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	WO 00/53771	03/08/00	PCT			

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	Akashi <i>et al.</i> , "Cloning and functional expression of a cytochrome P450 cDNA encoding 2-hydroxyisoflavanone synthase involved in biosynthesis of the isoflavanoid skeleton in licorice," <i>Plan Physiol.</i> , 121:821-828, 1999.
	C2	Dixon <i>et al.</i> , "Comparative bichemistry of chalcone isomerases," <i>Phytochemistry</i> , 27(9):2801-2808, 1988.
	C3	Dixon, In: <i>Comprehensive Natural Products Chemistry</i> , Vol. 1, Sankawa (ed.), Elsevier, 773-823, 1999.
	C4	Dixon and Ferriera, "Molecules of interest: Genistein," <i>Phytochemistry</i> , 60:205-211, 2002.
	C5	Dong <i>et al.</i> , "Functional conservation of plant secondary metabolic enzymes revealed by complementation of arabidopsis flavanoid mutants with maize genes," <i>Plant Physiology</i> , 127:46-57, 2001.
	C6	GenBank Accession Number AC092697.
	C7	GenBank Accession Number AF022462.
	C8	GenBank Accession Number AJ278457
	C9	GenBank Accession Number AJ295587.1
	C10	GenBank Accession Number M91079

25343169.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.



Form PTO-1449 (modified)

Atty. Docket No.

NBLE:007US

Serial No.

10/659,755

List of Patents and Publications for Applicant's

Applicant

Richard A. Dixon *et al.*

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

September 10, 2003

Group:

Unknown

U.S. Patent Documents

See Page 1

Foreign Patent Documents

See Page 1

Other Art

See Page 1

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C11	Hakamatsuka <i>et al.</i> , "Purification of 2-hydroxyisoflavanone dehydratase from the cell cultures of pueraria lobata," <i>Phytochemistry</i> , 49(2):497-505, 1998.
	C12	Jung <i>et al.</i> , "Identification and expression of isoflavone synthase, the key enzyme for biosynthesis of isoflavones in legumes," <i>Nature BioTech.</i> , 18:208-212, 2000.
	C13	Junghans <i>et al.</i> , "Stress responses in alfalfa (<i>medicago sativa</i> L.). 15. Characterization and expression patterns of members of a subset of the chalcone synthase multigene family," <i>Plant Mol. Biol.</i> , 22:239-253, 1993.
	C14	McKhann and Hirsch, "Isolation of chalcone synthase and chalcone isomerase cDNAs from alfalfa (<i>medicago sativa</i> L.): highest transcript levels occur in young roods and root tips," <i>Plant Mol. Biol.</i> , 24(5):767-777, 1994.
	C15	Muir <i>et al.</i> , "Overexpression of petunia chalone isomerase in tomato results in fruit containing increased levels of flavonols," <i>Nature Biotech.</i> , 19:470-474, 2001.
	C16	Schröder, "A family of plant-specific polyketide synthases: facts and predictions," <i>Trends in Plant Sci.</i> , 2(10):373-378, 1997.
	C17	Steele <i>et al.</i> , "Molecular characterization of the enzyme catalyzing the aryl migration reaction of isoflavanoid biosynthesis in soybean," <i>Arch. Biochem. Biophys.</i> , 367(1):146-150, 1999.
	C18	Stochmal <i>et al.</i> , "Alfalfa (<i>medicago sativa</i> L.) flavanoids. 2. Tricin and chrysoeriol glycosides from aerial parts," <i>J. Agric. Food Chem.</i> , 49:5310-5314, 2001.
	C19	Stochmal <i>et al.</i> , "Alfalfa (<i>medicago sativa</i> L.) flavanoids. 1. Apigenin and luteolin glycosides from aerial parts," <i>J. Agric. Food Chem.</i> , 49:753-758, 2001.
	C20	Winkel-Shirley, "Evidence for enzyme complexes in the phenylpropanoid and flavanoid pathways," <i>Physiologia Plantarum</i> , 107:142-149, 1999.
	C21	Ye <i>et al.</i> , "Engineering the provitamin A (β -carotene) biosynthetic pathway into (carotenoid-free) rice endosperm," <i>Science</i> , 287:303-305, 2000.
	C22	Yu <i>et al.</i> , "Production of the isoflavones genistein and daidzein in non-legume dicot and monocot tissues," <i>Plant Physiology</i> , 124:781-794, 2000.

25343169.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.